



STANDARD

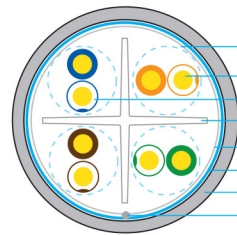
- ANSI/TIA-568.2-D Category 6
- ISO/IEC 11801:2017 Class E
- EN 50173-1 Category 6
- ICEA 5-102-700 Category 6
- EN 50288-5-1, NEMA WC 66
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL Listed CM, CMR, CMP and LSZH
- 3P Verified to TIA-568-C.2 CAT 6
- UL E197771, RoHS Compliant

APPLICATION

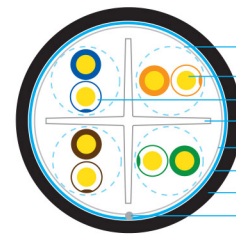
- Structure cabling for horizontal and building backbone
- 10G BASE-T (IEEE 802.3an) *55m
- 2.5G/5G BASE-T (IEEE 802.3bz)
- 10/100/1000 BASE-T (IEEE 802.3i/u/ab)
- IEEE 802.3af/at (PoE/PoE+)
- 52/155/622 Mbps and 1.2 Gbps ATM
- 4/16 Mbps Token Ring
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- HD BaseT 2.0 standard, Baseband, Broadband
- Digital & Analog for data, video and audio application

ELECTRICAL CHARACTERISTICS

| | |
|---------------------------------|----------------------------|
| Impedance | : 100±5Ω, 1 MHz to 600 MHz |
| Mutual Capacitance | : 5.6 nFMax / 100m |
| Capacitance, Unbalance | : 160 pF Max / 100m |
| DC Resistance | : 6.65 ohm Max/100m |
| DC Resistance, Unbalance | : 5% Max. |
| Insulated Resistance | : 5000 MΩ/Km |
| Dielectric Strength | : 1kV/min |
| Propagation Delay | : 536 ns/100m Max @600MHz |
| Delay Skew | : 30 ns Max |



US-9136



US-9136PE

CONSTRUCTION / MATERIAL

| | |
|--------------------|--|
| Conductor | : 23AWG Solid/Stranded Bare Copper |
| Insulation | CM, CMR, LSZH, OUTDOOR : HDPE CMP : FEP |
| Filler Slot | : FRPE |
| Mylar | : Mylar Tape |
| Drain Wire | : Tinned Copper |
| Shielded | : AL-Mylar Tape |
| Ripcord | : Under Jacket |
| Jacket | CM, CMR : FR-PVC CMP : FR-PVC (Low Smoke) LSZH : FR-LSZH OUTDOOR : UV-Proof, PE |

| FREQUENCY (MHZ) | INSERTION LOSS (dB/100m) | NEXT MIN.(dB) | ACR-N MIN.(dB) | PS NEXT MIN.(dB) | PS ACR-N MIN.(dB) | ACR-F MIN.(dB/100m) | PS ACR-F MIN.(dB/100m) | RL MIN.(dB) |
|-----------------|--------------------------|---------------|----------------|------------------|-------------------|---------------------|------------------------|-------------|
| 1 | 2.0 | 78.0 | 76.0 | 76.0 | 73.5 | 69.0 | 66.0 | 20.0 |
| 31.25 | 10.7 | 56.0 | 45.3 | 54.0 | 42.8 | 38.5 | 35.6 | 23.6 |
| 62.5 | 15.4 | 50.5 | 35.1 | 52.2 | 33.0 | 33.0 | 29.5 | 21.5 |
| 100 | 19.8 | 47.5 | 27.7 | 49.8 | 25.6 | 28.5 | 25.8 | 20.1 |
| 155 | 25.1 | 45.0 | 19.7 | 47.2 | 17.2 | 25.0 | 23.0 | 18.8 |
| 200 | 29.0 | 44.4 | 15.4 | 45.0 | 12.3 | 22.5 | 21.7 | 18.0 |
| 250 | 28.69 | 42.9 | 10.9 | 43.2 | 6.5 | 21.2 | 18.0 | 17.3 |
| 300 | 32.8 | 41.5 | 4.9 | 40.7 | 1.9 | 18.5 | 15.6 | 16.8 |
| 400 | 39.7 | 38.5 | - | 37.5 | - | 16.5 | 13.7 | 15.9 |
| 550 | 48.9 | 36.7 | - | 34.5 | - | 13.5 | 10.7 | 14.9 |
| 600 | 51.1 | 36.5 | - | 34.5 | - | 13.0 | 10.0 | 14.7 |

MECHANICAL PROPERTIES

Minimum Bending Radius

Installation 8 X Cable Diameter
Operation 4 X Cable Diameter

Tensile Strength

110 N (25lbf)

Ultimate Breaking Strength

>400 N (90lbf)

Installation / Operating temperature

-20°C to 60°C (-40°C to 75°C for US-9136PE)

Storage Temperature

-20°C to 80°C (-40°C to 80°C for US-9136PE)

| Part No. | UL/NEC Flame Rating | Conductor | Jacket | Diameter (mm.) | Color | Packaging |
|-------------|---------------------|-------------------------|---------|----------------|-------|-----------|
| US-9136 | CMR | 23AWG Solid Bare Copper | FR-PVC | 7.0 | White | 305m/Reel |
| US-9136LSZH | LSZH | 23AWG Solid Bare Copper | FR-LSZH | 7.0 | White | 305m/Reel |
| US-9136PE | OUTDOOR | 23AWG Solid Bare Copper | PE | 7.2 | Black | 305m/Reel |